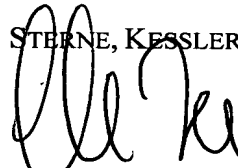


Remarks

Claims 1-3, 6-9, 13-37, and 39 are pending in this application. By the foregoing amendment, Applicants seek to cancel claims 4-5, 10-12, 38, and 40, and amend claims 13, 32, and 39. Furthermore, the specification has been amended to correct the priority claim. These changes are believed to be fully supported by the specification and are not believed to introduce new matter. Thus, it is respectfully requested that the amendments be entered by the Examiner. The Examiner is invited to telephone the undersigned representative if it is believe that an interview might be useful for any reason.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Michael Q. Lee
Attorney for Applicant
Registration No. 35,239

Date: 6/6/01

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600

Version with markings to show changes made

In the Specification:

Page 1, lines 12-15:

This application claims the benefit of [the following:] U.S. Provisional Application No.60/147,129, filed on August 4, 1999; and this application is a continuation-in-part of U.S. Application No. 09/525,615, filed on March 14, 2000; and this application is a continuation-in-part of U.S. Application No. 09/526,041, filed on March 14, 2000, all of which are incorporated herein by reference in their entireties.

In the Claims:

13. (Once Amended) The apparatus of claim [10] Z, wherein said first and said second universal frequency down-conversion modules each comprise a switch and a storage element.

32. (Once Amended) A method of transmitting a baseband signal over a wireless LAN, comprising the steps of:

(1) spreading the baseband signal using a spreading code, resulting in a spread baseband signal; and

(2) differentially sampling the spread baseband signal according to a first control signal and a second control signal resulting in a plurality of harmonic images that are each representative of the baseband signal, wherein said first and second control signals have pulse widths [that improve energy transfer to a desired harmonic image of said plurality of harmonics].

39. In a wireless LAN device, a method of down-converting a received RF signal, comprising the steps of:

down-converting said received RF signal according to a first control signal and a second control signal, resulting in a down-converted signal, wherein said second control signal is delayed

relative to said first control signal by $.5 + n$ cycles of said received RF signal, wherein n may be any integer greater than or equal to 1;

de-spreading said down-converted signal using a spreading code, resulting in a de-spread signal; and

de-modulating said de-spread signal, resulting in a de-modulated signal;

wherein said first and said second control signals each comprise a train of pulses having pulse widths [that are established to improve energy transfer from said received RF signal to said down-converted signal].

Claims 4-5, 10-12, 38, and 40 have been canceled.